

ABSTRACT OF THE DISCLOSURE

5     A method of operating a combustor (10), to provide intimately mixed hot combusted gas (44) for a gas turbine (46), includes feeding gaseous oxidant (12) and gaseous fuel (16) into the combustor (10) near a combustion flame (28) which has a tip end (39) and a root end (29), where corona discharge occurs through adjustment of an electric field (34), and-where the corona discharge causes ionized particles (36) to form and also causes intimate turbulent mixing of the gases.